Date: Thu, 15 Apr 93 21:01:39 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #470
To: Info-Hams

Info-Hams Digest Thu, 15 Apr 93 Volume 93 : Issue 470

Today's Topics:
AN/GRC-109
NASA SELECT (Summary) (2 msgs)
Weekly Solar Terrestrial Forecast & Review for 16 April

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 16 Apr 93 18:45:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: AN/GRC-109
To: info-hams@ucsd.edu

Jim ask what this was.

The AN/GRC-109 is a compact,portable HF radio set used for CW communications under a wide range of climatic conditions. Transmissions can be made using the built-in hand key, an external hand key, or an external, high-speed automatic keyer such as Coder-Burst Transmission Group AN/GRA-71. Two power supplies and a voltage regulator permit operation from a variety of power sources.

Freq Range	Trans 3-22 MHZ Rec 3-24 MHz
Number of channels	24,crystal controlled
Power Input	75 to 260V AC, 40 to 400 Hz or 6V DC
Power Source	Any appropriate AC power source, generator DC G-43/G, 6-V DC wet or dry battery

Power Output   10 to 15 W
Squelch   None
Type of Service   Transmit, 0.1A1
Weight   25.2kg (55.5lb)

The AN/GRC-109A would mean that the basic 109 had been modified. I don't know what the mod was.

Have fun.

73 de Roland 7J1AKI (ASQP-NBF@ZAMA-EMH1.ARMY.MIL)

Date: Fri, 16 Apr 1993 03:21:32 GMT
From: sdd.hp.com!ux1.cso.uiuc.edu!news.cso.uiuc.edu!uxa.cso.uiuc.edu!jtg0707@network.UCSD.EDU
Subject: NASA SELECT (Summary)
To: info-hams@ucsd.edu

Hello again.
This is the slightly improved list.(Without all the spelling errors!)

If anyone has any luck with AMSAT OSCAR, please let me know.

I am also seeking information for setting up satellite equipments for receiving NASA SELECT direct.(i.e. orbit info, inclinations, types of receivers etc...).

Some of you on the net has asked me to put this list on a ftp site.
I am open to suggestions.

A gentleman from Kansas asked me if it is legal (ARRL rule) to rebroadcast NASA SELECT if it contains music. Music can be heard from time to time during the press briefings or wake-up callls. I did not have a good answer for that. Can anyone on the net shed some light on that one?

J.T.
jtg0707@uxa.cso.uiuc.edu

Date: Fri, 16 Apr 1993 03:03:41 GMT
From: sdd.hp.com!ux1.cso.uiuc.edu!news.cso.uiuc.edu!uxa.cso.uiuc.edu!

jtg0707@network.UCSD.EDU
Subject: NASA SELECT (Summary)
To: info-hams@ucsd.edu

NASA SELECT rebroadcast frequencies

Town/City	State	2m	70cm	Source
AMSAT OSCAR		145.945	-	
		145.955	-	
Kitchener,Ont.	Ca	146.865	445.760	jtrimble@undergrad.math.uwaterloo.ca
Birmingham,	AL	145.380	-	
		145.150	-	
Huntsville,	AL	145.100	-	
		147.100	-	
Phoenix,	AZ	-	448.975	
		-	449.000	
Tucson,	AZ	-	448.625	
Los Angeles,	CA	145.320	445.400	
		145.460	445.425	
		224.040	-	
		224.940	446.575	
		-	447.000	
		-	447.025	
		-	447.400	
		-	447.475	
		-	448.375	
		-	448.500	
		-	448.650	
		-	449.000	
Monterey,	CA	-	443.300	
Mountain View,	CA	145.585	-	fariss@kronos.arc.nasa.gov
Pasadena,	CA	224.040	-	
Sacramento,	CA	147.195	444.750	chandler@beagle
		147.404	443.925	chandler@beagle
San Diego,	CA	146.640	443.400	
		-	449.450	
		-	448.625	
			448.675	
San Francisco,	CA	145.585	444.775	
		-	443.300	
San Jose,	CA	145.585	443.300	
Santa Barbara,	CA	-	449.000	

Santa Cruz,	CA	-	444.300	
Ventura/Oxnard,	CA	146.655	-	
Connecticut,	CT	-	448.425	
Washington,	DC	147.450	-	
Cape Canaveral,	FL	146.940	-	
Jacksonville,	FL	147.120	-	
Melbourne,	FL	145.170	-	Sorry, can't make out address
Merritt Island,	FL	146.940	-	
Vero Beach,	FL	145.130	-	
Atlanta,	GA	146.655	-	
		147.345	-	
Ashburn,	GA	147.285	-	
Forsyth,	GA	147.915	-	
Champaign,	IL	146.880	-	jtg0707@uxa.cso.uiuc.edu
Chicago,	IL	145.210	-	
		145.350	-	
Downers Grove,	IL	145.350	-	
Cedar Rapids,	IA	146.400	444.300	
York,	ME	224.840	-	
Portland,	ME	146.925	-	
Mpls/St.Paul	MN	145.150	-	penson@geom.umn.edu
		147.120	-	
		149.200	-	
Waseca,	MN	147.450	427.250	
Central Jersey,	NJ	-	443.400	kb2ear@kb2ear.ampr.org
Southern NM,	NM	-	448.625	
		-	448.650	
		-	448.675	
		-	448.975	
		-	449.000	
Las Vegas,	NV	-	449.000	
Albany,	NY	146.820	-	
Kings Park,	NY	145.430	-	popovich@adam.cs.columbia.edu
Akron,	OH	147.330	-	macy@fmsystm.ncoast.org
Cleveland,	OH	147.195	-	macy@fmsystm.ncoast.org
Dayton,	OH	145.110	-	
Greenville,	OH	416.790	-	
Dallas,	TX	146.600	448.750	dwd@doe1.uta.edu
El Paso,	TX	-	448.650	
Ft. Worth,	TX	145.310	448.750	dwd@doe1.uta.edu
Houston,	TX	146.640	-	
		171.150	-	
Wausau,	WI	146.820	-	
		147.060	-	
Salt Lake City,	UT	-	448.625	
Cedar City,	UT	-	448.650	

Thanks for all the replies.

The list above is what I have after some digging.
I have to assume these frequencies are current and functioning until being told otherwise, as I have no real way of verifying them.

I have also receive some informations on the video retransmissions and SSB/HF retransmissions. I've decided not to include them at this time due to time constraints and concentrated mainly on 2m and 70cm bands. There are some non-amateur band frequencies that I've decided to include as part of the list; you may find them useful if your HT can receive them.

AMSAT OSCAR may be very useful. I can't receive anything on those frequencies. A local ham informed me that I need a very high gain antenna to receive anything from satellites.

If you do get something from OSCAR, or any other 2m/70cm rebroadcasts from satellites, please drop me a note. I am sure many people outside USA will be very interested in your setup.

If you are interested in HF/SSB, there is another list available from N8QLT from compuserve. His email address is 70534,227 on compuserve.
N8QLT's list consists of a large collections of aviation band frequencies, NASA contractor frequencies, HF/SSB, and 2m/70m frequencies. There is a large overlap between N8QLT's list and this list.(Not too surprising!)
I think there is a small list of the HF/SSB frequencies that may already exist in the rec.radio.amateur.misc FAQ. Email ikluft@uts.amdahl.com if you want know more.

Finally, if you are satellite capable, you can receive NASA SELECT video direct from satellite F2, transponder 13, with a c-band satellite receiver.
Drop me a note if you have more specific information on the satellite setups. I don't own any satellite gear, so I can't try this out.
Again, if you have details, such as inclinations etc..., drop me a note.

This list is a compilation from personal emails, local lists, HAM BBS files, and words of mouth. You may reproduce and/or distribute this list in any form for non-commercial purposes only. All rules in amateur radio do apply.

Keep sending the frequencies and I'll keep updating the list.

jtg0707@uxa.cso.uiuc.edu
N9RRD
4/15/93

Date: 16 Apr 93 03:02:17 GMT
From: news-mail-gateway@ucsd.edu
Subject: Weekly Solar Terrestrial Forecast & Review for 16 April
To: info-hams@ucsd.edu

--- SOLAR TERRESTRIAL FORECAST AND REVIEW ---
April 16 to April 25, 1993

Report Released by Solar Terrestrial Dispatch
P.O. Box 357, Stirling, Alberta, Canada
T0K 2E0
Accessible BBS System: (403) 756-3008

SOLAR AND GEOPHYSICAL ACTIVITY FORECASTS AT A GLANCE

10-DAY SOLAR/RADIO/MAGNETIC/AURORAL ACTIVITY OUTLOOK

	Solar	HF Propagation					+/-	CON	SID				AU.BKSR			DX	Mag	Aurora		
	Activty	LO	MI	HI	PO	SWF	%MUF	%	ENH	LO	MI	HI	LO	MI	HI	%	K Ap	LO	MI	HI
16	VLW-LOW	G	G	F	F	05	-15	70	01	NA	NA	NA	01	10	20	30	4 20	NV	LO	MO
17	VLW-LOW	G	G	P	P	05	-20	70	01	NA	NA	NA	02	20	30	25	5 22	NV	MO	MO
18	VLW-LOW	G	F	P	P	05	-30	65	02	NA	NA	NA	03	30	40	20	4 25	NV	LO	MO
19	VLW-LOW	G	F	P	F	05	-25	65	05	NA	NA	NA	03	20	35	25	4 20	NV	NV	MO
20	VLW-LOW	G	G	F	F	05	-20	65	05	NA	NA	NA	02	15	30	30	4 15	NV	NV	LO
21	LOW	G	G	P	P	10	-15	60	10	NA	NA	NA	03	25	35	25	3 22	NV	LO	MO
22	LOW	G	G	P	F	10	-20	65	10	NA	NA	NA	02	20	25	30	3 18	NV	NV	MO
23	LOW	G	G	F	F	15	-15	65	15	NA	NA	NA	02	10	20	30	4 12	NV	NV	LO
24	LOW	G	G	F	F	20	-15	65	15	NA	NA	NA	02	10	15	30	4 10	NV	NV	LO
25	LOW	G	G	F	F	20	-10	65	15	NA	NA	NA	02	10	15	35	3 10	NV	NV	LO

DEFINITIONS:

Date (day only)
Possible Magnitude of Solar Flaring (LOW=C-class, MOD=M-class, HIGH=M or X)
HF Propagation Conditions for LOw, MIddle, HIgh, and POlar areas (see below)
HF Short Wave Fade Probability (in %)
HF Maximum Usable Frequency in +/- percent above seasonal normals.
HF Prediction CONfidence Level (in %)
VHF Sudden Ionospheric ENHancement Probs (in %), weighted for low-mid lats
PROBability of "s"poradic E (Es) during the UT day for low, mid and high lats
VHF AUroral BacKScatteR Probs (in %) for LOw, MIddle and HIgh Latitudes
VHF Overall Global DX Potential (in %) - weighted for Low and Middle latitudes
Geomagnetic Activity Kp Index (peak value - see below)
GeoMAGnetic Activity Ap Index (peak value - see below)

AURORAl Activity for LOw, MIddle and HIgh Latitudes (see below)

HF Prop. Quality rated as: EG=Extremely Good, VG=Very Good, G=Good, F=Fair, P=Poor, VP=Very Poor, EP=Extremely Poor.
Probability of Sporadic E (Es) for the various latitudes is given in percent.
Kp Planetary Index rated: 0=V.Quiet, 1=Quiet, 2=Unstld, 3=Active, 4=V.Active, 5=Minor Storm, 6=Major Storm, 7=Maj-Sev Storm, 8=Severe Storm, 9=V.Severe.
Ap Planetary Index rated: 0-7=Quiet, 8-16=Unstld, 17-29=Active, 30-49=Minor Storm, 50-99=Major Storm, Severe Storm >=100.
Auroral Activity rated: NV=Not Visible, LO=Low, MO=Moderate, HI=High, VH=Very High.

PEAK PLANETARY 10-DAY GEOMAGNETIC ACTIVITY OUTLOOK (16 APR - 25 APR)

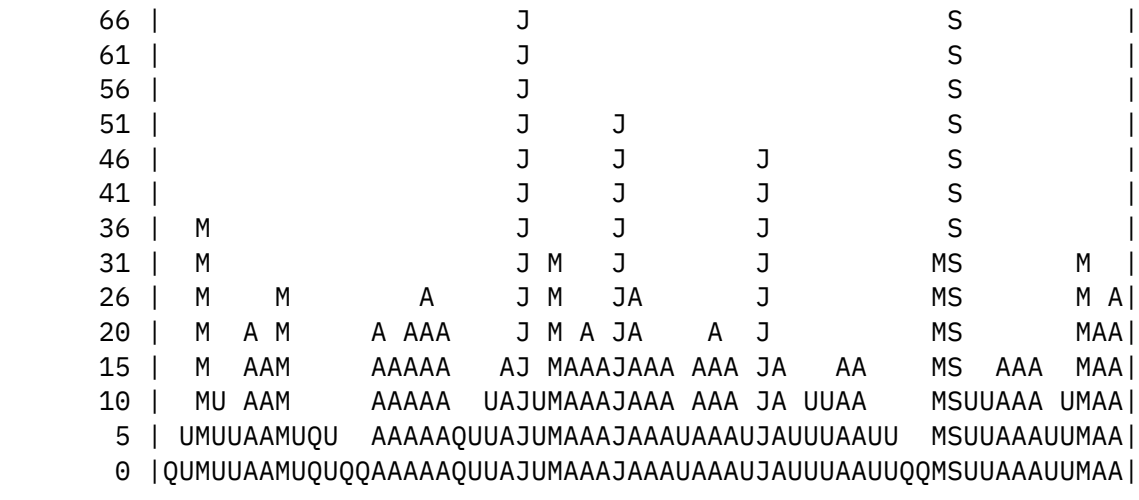
EXTREMELY SEVERE										HIGH
VERY SEVERE STORM										HIGH
SEVERE STORM										MODERATE
MAJOR STORM										LOW - MOD.
MINOR STORM		*								LOW
VERY ACTIVE	*	***	**							NONE
ACTIVE	***	***	***	**	*	***	*			NONE
UNSETTLED	***	***	***	***	***	***	***	***	**	NONE
QUIET	***	***	***	***	***	***	***	***	***	NONE
VERY QUIET	***	***	***	***	***	***	***	***	***	NONE
Geomagnetic Field Conditions	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Anomaly Intensity
	Given in 8-hour UT intervals									

CONFIDENCE LEVEL: 70%

NOTES:
Predicted geomagnetic activity is based heavily on recurrent phenomena. Transient energetic solar events cannot be predicted reliably over periods in excess of several days. Hence, there may be some deviations from the predictions due to the unpredictable transient solar component.

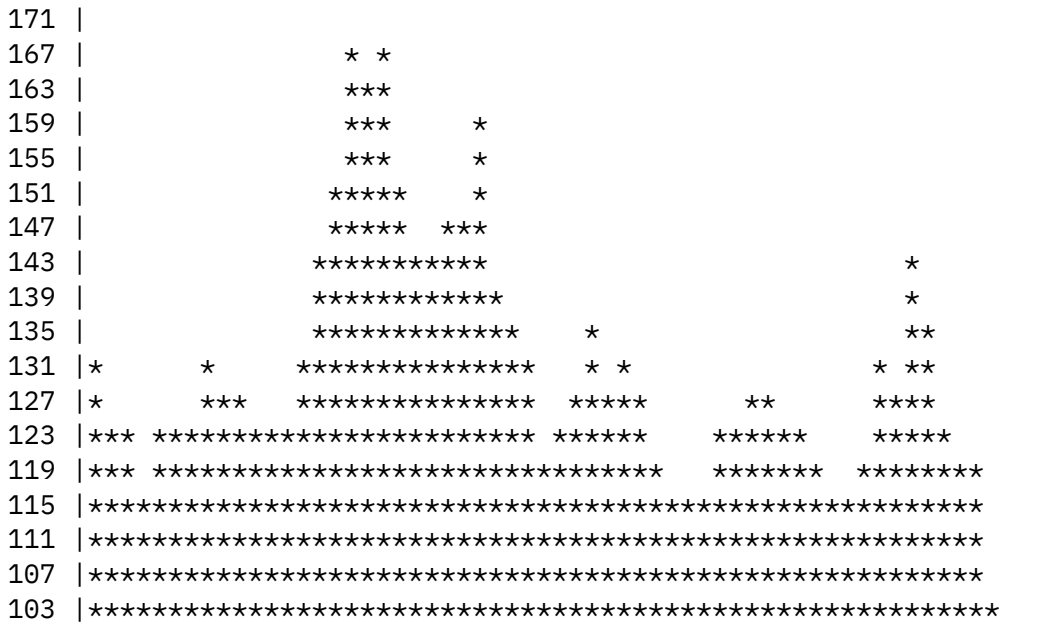
60-DAY GRAPHICAL ANALYSIS OF GEOMAGNETIC ACTIVITY

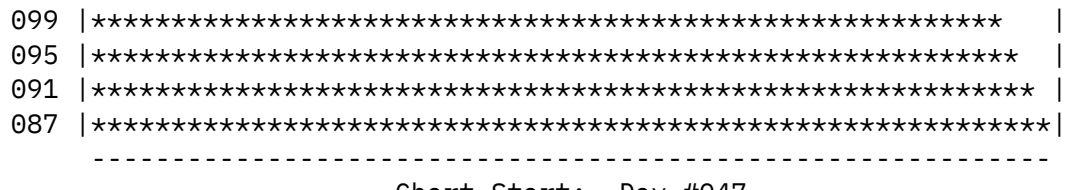
```
102 |                                                  S          |
 97 |                                                  S          |
 92 |                                                  S          |
 87 |                                                  S          |
 82 |                                                  S          |
 77 |                     J                            S          |
 71 |                     J                            S          |
```



NOTES:
This graph is determined by plotting the greater of either the planetary A-index or the Boulder A-index. Graph lines are labelled according to the severity of the activity which occurred on each day. The left-hand column represents the associated A-Index for that day.
Q = Quiet, U = Unsettled, A = Active, M = Minor Storm, J = Major Storm, and S = Severe Storm.

CUMULATIVE GRAPHICAL CHART OF THE 10.7 CM SOLAR RADIO FLUX

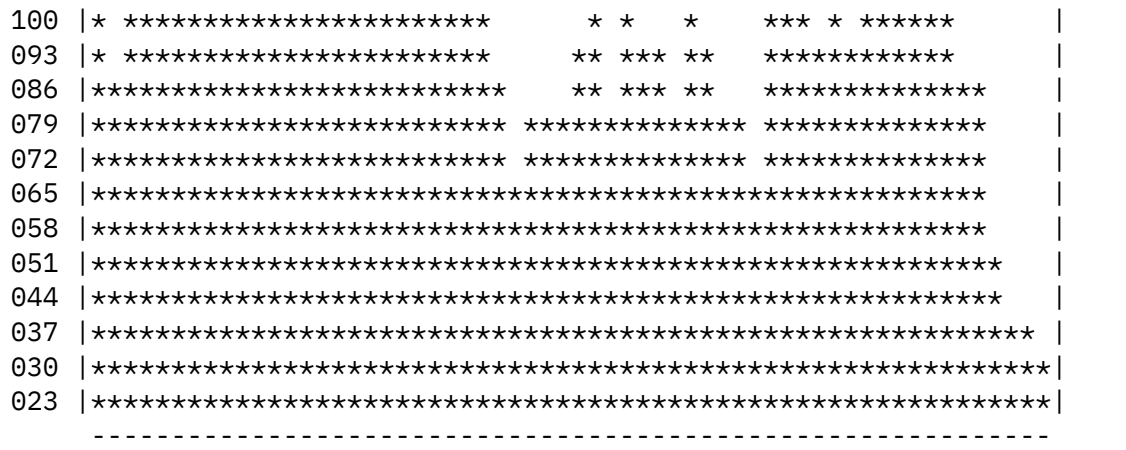




GRAPHICAL ANALYSIS OF 90-DAY AVERAGE SOLAR FLUX

NOTES:
The 10.7 cm solar radio flux is plotted from data reported by the Penticton Radio Observatory (formerly the ARO from Ottawa). High solar flux levels denote higher levels of activity and a greater number of sunspot groups on the Sun. The 90-day mean solar flux graph is charted from the 90-day mean of the 10.7 cm solar radio flux.

CUMULATIVE GRAPHICAL CHART OF SUNSPOT NUMBERS



NOTES:
The graphical chart of sunspot numbers is created from the daily sunspot number counts as reported by the SESC.

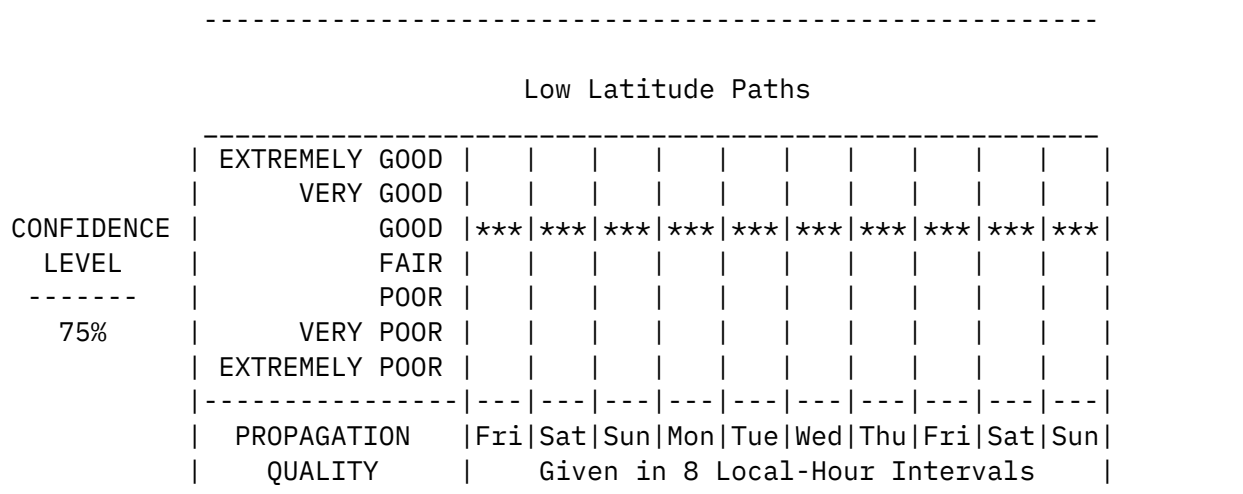
HF RADIO SIGNAL PROPAGATION PREDICTIONS (16 APR - 25 APR)

High Latitude Paths

CONFIDENCE LEVEL		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
70%	EXTREMELY GOOD										
	VERY GOOD										
	GOOD										
	FAIR	*			*	**	*	**	**	**	**
	POOR	*	***	***	*	*	*	*	*	*	*
	VERY POOR										
	EXTREMELY POOR										
PROPAGATION QUALITY		Given in 8 Local-Hour Intervals									

Middle Latitude Paths

CONFIDENCE LEVEL		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
70%	EXTREMELY GOOD										
	VERY GOOD										
	GOOD	**	*	*	**	**	*	**	**	***	***
	FAIR	*	*	*	*	*	*	*	*		
	POOR										
	VERY POOR										
	EXTREMELY POOR										
PROPAGATION QUALITY		Given in 8 Local-Hour Intervals									



NOTES:

NORTHERN HEMISPHERE		SOUTHERN HEMISPHERE	
High latitudes	>= 55 deg. N.	High latitudes	>= 55 deg. S.
Middle latitudes	>= 40 < 55 deg. N.	Middle latitudes	>= 30 < 55 deg. S.
Low latitudes	< 40 deg. N.	Low latitudes	< 30 deg. S.

POTENTIAL VHF DX PROPAGATION PREDICTIONS (16 APR - 25 APR)
INCLUDES SID AND AURORAL BACKSCATTER ENHANCEMENT PREDICTIONS

HIGH LATITUDES

FORECAST CONFIDENCE	Given in 8 hour local time intervals: Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	SWF/SID ENHANCEMENT: F	S	S	M	T	W	T	F	S	S
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%								*	*
40%	***	***	***	***	***	***	***	***	***	***	40%									
60%	***	***	***	***	***	***	***	***	***	***	60%									
80%											80%									
100%											100%									
100%											100%									
80%											80%									
60%											60%									
40%											40%		*	*			*			
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*

CHANCE OF VHF DX	Given in 8 hour local time intervals: Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	AURORAL BACKSCATTER: F	S	S	M	T	W	T	F	S	S

MIDDLE LATITUDES

FORECAST	Given in 8 hour local time intervals										SWF/SID ENHANCEMENT								
CONFIDENCE	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	F	S	S	M	T	W	T	F	S	S
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%						*	*	*	*
40%	***	***	***	***	***	***	***	***	***	***	40%								*	*
60%	***	***	***	***	***	***	***	***	***	***	60%									
80%											80%									
100%											100%									
100%											100%									
80%											80%									
60%											60%									
40%											40%									
20%	***	***	***	***	***	***	***	***	***	***	20%		*	*			*			
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*
CHANCE OF VHF DX	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	F	S	S	M	T	W	T	F	S	S
	Given in 8 hour local time intervals										AURORAL BACKSCATTER									

LOW LATITUDES

FORECAST	Given in 8 hour local time intervals										SWF/SID ENHANCEMENT								
CONFIDENCE	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	F	S	S	M	T	W	T	F	S	S
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%						*	*	*	*
40%	***	***	***	***	***	***	***	***	***	***	40%								*	*
60%	***	***	***	***	***	***	***	***	***	***	60%									
80%											80%									
100%											100%									
100%											100%									
80%											80%									
60%									*	*	60%									
40%	***	***	***	***	***	***	***	***	***	***	40%									
20%	***	***	***	***	***	***	***	***	***	***	20%									
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*
CHANCE OF VHF DX	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	F	S	S	M	T	W	T	F	S	S
	Given in 8 hour local time intervals										AURORAL BACKSCATTER									

NOTES:

These VHF DX prediction charts are defined for the 30 MHz to 220 MHz bands. They are based primarily on phenomena which can affect VHF DX propagation globally. They should be used only as a guide to potential DX conditions on VHF bands. Latitudinal boundaries are the same as those for the HF predictions charts.

AURORAL ACTIVITY PREDICTIONS (16 APR - 25 APR)

High Latitude Locations

CONFIDENCE LEVEL										
EXTREMELY HIGH										
VERY HIGH										
HIGH										
MODERATE	***	***	**	*	*	*				
LOW	***	***	***	***	***	***	***	***	***	***
NOT VISIBLE	***	***	***	***	***	***	***	***	***	***
70%										
AURORAL INTENSITY	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Eve.Twilight/Midnight/Morn.Twilight									

Middle Latitude Locations

CONFIDENCE LEVEL										
EXTREMELY HIGH										
VERY HIGH										
HIGH										
MODERATE	*	*								
LOW	***	***	***	*		*				
NOT VISIBLE	***	***	***	***	***	***	***	***	***	***
70%										
AURORAL INTENSITY	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Eve.Twilight/Midnight/Morn.Twilight									

Low Latitude Locations

CONFIDENCE LEVEL										
EXTREMELY HIGH										
VERY HIGH										
HIGH										
MODERATE										
LOW										
NOT VISIBLE	***	***	***	***	***	***	***	***	***	***
90%										
AURORAL INTENSITY	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Eve.Twilight/Midnight/Morn.Twilight									

NOTE:
     A Dynamic Auroral Oval Simulation and Prediction Software Package is available to help make predictions and show the locations where auroral activity should be visible from the ground. For more information regarding this software, contact: "Oler@Rho.Uleth.CA", or "COler@Solar.Stanford.Edu".

     For more information regarding these charts, send a request for the document, "Understanding Solar Terrestrial Reports" to: "Oler@Rho.Uleth.Ca" or to: "COler@Solar.Stanford.Edu". This document, as well as others and related data/forecasts exist on the STD BBS at: (403) 756-3008.

** End of Report **

Date: Fri, 16 Apr 1993 03:12:25 GMT
From: usc!howland.reston.ans.net!ux1.cso.uiuc.edu!news.iastate.edu!
pv1415.vincent.iastate.edu!monty@network.UCSD.EDU
To: info-hams@ucsd.edu

References <btobackC599wq.n0J@netcom.com>, <5FgZ2B1w165w@twiki.PDX.COM>,
<C5JwnK.F6M@wang.com>415.v
Subject : Re: Ham radio: The dull alternative

In <C5JwnK.F6M@wang.com> dbushong@wang.com (Dave Bushong) writes:

>peterl@twiki.PDX.COM (Peter Lee) writes:

>>btoback@netcom.com (Bruce Toback) writes:

>>>>sometimes treated more like pets than people. Not only were there
>>no girls or women among the 20 or so applicants at the VE session
>>I went to, but none of the VEs were women.
>>>>

>>I was rather perplexed at this well intentioned comment. Why would it
>>matter if there were VEs who were women or not? We should really not
>>care if they are women, but simply, if they are qualified.

>>Organizations shouldn't have to divide positions based on the fact that
>>there have to be percentages of various genders and races and such. The
>>fact of the matter is, you utilize who will get the job done, regardless
>>of who they are, what nationality they are, how much money they make, or
>>how they choose to pray (or lack thereof).

>Tonight, after racquetball, I noticed in the locker room that there
>were no female VEs there. Oh, wait... maybe that's because I was

>there to change clothes, not to find a date.

>Get real.
>--
>Dave Bushong, Wang Laboratories, Inc. Amateur Radio Callsign KZ1O
>Project Leader, Recognition products kz1o@n0ary.#noca.ca.na
>Internet: dbushong@wang.com

Well, not to add another data point on something that is obviously absurd....

When I took a buddy down to get his novice license - yes he wanted the code after listing to 2m for so long - there was a woman VE who was helping to administer the test.

Oh, I almost forgot, my wife and I will be taking the Extra code this Sat, and then there will be another VE who is a woman. As soon as the paper can catch up here that is..... She always wanted to help out doing the tests. :)

By the way, she is also a big anti-feminist. Discrimination, in any form that the PC folks like to cloak it in is still discrimination.....

Joel Montgomery
Grad Slave
N0QVG - AFA3HG
And lots o' others.....

End of Info-Hams Digest V93 #470
****